

CLAIMS

1. A system for conveying location of an object comprising:
first means for receiving location information regarding said object, said location information including a first coordinate x , a second coordinate y , and a third coordinate z ;
5 second means for correlating said first and second coordinates (x,y) with a location of an icon in two-dimensional space in an electro-optical display; and
third means for correlating said third coordinate z with a size of said icon.
2. The invention of Claim 1 wherein said third coordinate z represents altitude.
3. The invention of Claim 1 wherein said first and second coordinates (x,y) represent latitude and longitude.
4. The invention of Claim 1 wherein said object is an aircraft.
5. The invention of Claim 1 wherein said size of said icon is selected from a limited number of discriminably different sizes.
6. The invention of Claim 1 wherein said third means includes a continuously variable relationship between said icon size and said third coordinate z .
7. The invention of Claim 1 wherein said size of said icon is directly correlated with said third coordinate z , such that a larger value of said third coordinate z correlates with a larger size of said icon.
8. The invention of Claim 1 wherein said size of said icon is inversely, non-linearly, or discontinuously, correlated with said third coordinate z : an inverse

correlation is such that a larger value of said third coordinate z correlates with a smaller size of said icon.

9. A system for conveying location of an object comprising:

first means for receiving location information regarding said object, said location information including a first coordinate x , a second coordinate y , and a third coordinate z ;

5 second means for correlating said first and second coordinates (x,y) with a location of an icon in an electro-optical display; and

third means for correlating said third coordinate z with a color or grayscale value of said icon.

10. A system for conveying location of an object comprising:

first means for receiving location information regarding said object, said location information including a first coordinate x , a second coordinate y , and a third coordinate z ;

5 second means for correlating said first and second coordinates (x,y) with a location of an icon in an electro-optical display; and

third means for correlating said third coordinate z with an intensity (i.e., contrast value) of said icon.

11. A system for conveying location of an object comprising:

first means for receiving location information regarding said object, said location information including a first coordinate x , a second coordinate y , and a third coordinate z ;

5 second means for correlating said first and second coordinates (x,y) with a location of an icon in an electro-optical display; and

third means for correlating said third coordinate z with a shape of said icon.

12. A system for conveying aircraft altitude to a human observer comprising:
a receiver for receiving latitude, longitude, and altitude information;
a microprocessor;
a memory device;
5 a display; and
a program for converting said altitude to an icon size, and placing an icon of said
icon size at coordinates corresponding to said latitude and longitude in said display.

13. A method for conveying location of an object including the steps of:
receiving location information regarding said object, said location information
including a first coordinate x, a second coordinate y, and a third coordinate z;
correlating said first and second coordinates (x,y) with a location of an icon in an
5 electro-optical display; and
correlating said third coordinate z with a size of said icon.